Dr. Ahmed Sobhi Mohamed Gad is an Assistant Professor of Production Engineering at the Faculty of Engineering, Helwan University, Egypt. With a **Ph.D.** in Manufacturing from Helwan University, his research has focused on advanced manufacturing technologies, particularly the enhancement of model building using 3D printing. His earlier academic milestones include an **M.Sc.** in Surface Roughness Predictive Evaluation using Artificial Neural Networks and a **B.Sc.** with top honors in Production Engineering.

Since 2006, **Dr. Ahmed** has held full-time teaching responsibilities at Helwan University and has taught at numerous other Egyptian institutions, including Future University, Nile University, Ahram Canadian University, and CIC. His courses span a wide range of subjects in manufacturing and industrial engineering, such as Reverse Engineering, Industrial Robotics, CAD/CAM, and Project Time Management.

Dr. Ahmed has a distinguished role in international academic cooperation and led the Academic Mobility Division at Helwan University's International Relations Office. He has developed and coordinated several interinstitutional agreements with European institutions under Erasmus+ enhancing global academic engagement. His efforts have led to the formalization of several agreements between Helwan University and European universities.

He has participated in numerous training programs. internationally, at the University of Catania (Italy), and nationally, he has undergone technical training with major industrial institutions such as Halliburton, Schlumberger, and GUPCO.

His supervision portfolio includes **Ph.D.** and **M.Sc.** research in advanced machining and additive manufacturing. **Dr. Ahmed** has also led and evaluated several innovative graduation projects in fields like CNC machine design and green energy.

In addition to academia, **Dr. Ahmed** serves as Maintenance Manager at one of the largest electric golf car companies in Egypt. He also, consults for the manufacturing sector, and has previously managed production at Helwan Machinery Importing Co.

He has published multiple peer-reviewed papers on 3D printing, micro-drilling, and additive manufacturing optimization. Also, He is proficient in CAD/CAM tools like SolidWorks, PowerMill, and Creo, and programming languages including Matlab and Visual Basic.